D-Link®
Building Networks for People

Product Highlights

Scalable, Flexible, Centralised AP Management

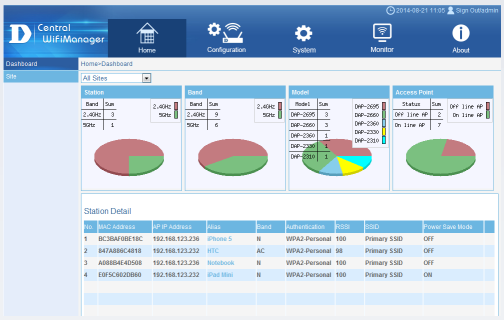
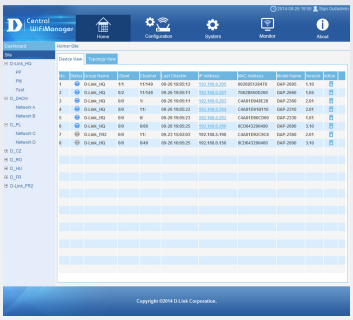
Manage up to 500 APs from a single location, complete with a multi-tenant structure that provides multi-layer management authority

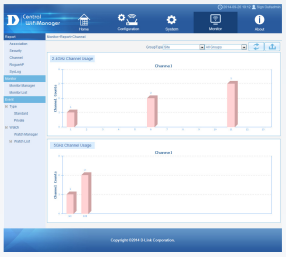
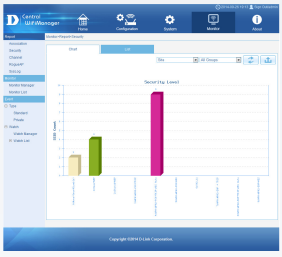
Remote Access Made Easy

Access Central WiFiManager anytime, anywhere through the Internet by using a web browser on your PC, smartphone or tablet

Built For Business

Enterprise-level features such as bandwidth optimisation, captive portal and RF optimisation help satisfy the needs of the modern business environment

CWM-100

Central WiFiManager

Features

Web-based management

- Software controller that can be installed on a Microsoft Windows computer[2] and accessed through any device with a web browser such as a smartphone, tablet or computer

Multi-site management

- Multiple distributed sites can be managed from a central location
- The multi-tenant architecture provides multi-layer management authority

NAT pass-through

- Controllers can manage wireless access points in remote locations even if they are behind a NAT device (router or firewall)

Captive portal and access control

- Supports local DB, external RADIUS, LDAP, POP3 and Wi-Fi passcode authentication
- Supports user access control

Auto radio frequency (RF) management

- Supports automatic channel and output power optimisation

Bandwidth optimisation

- Optimises wireless bandwidth

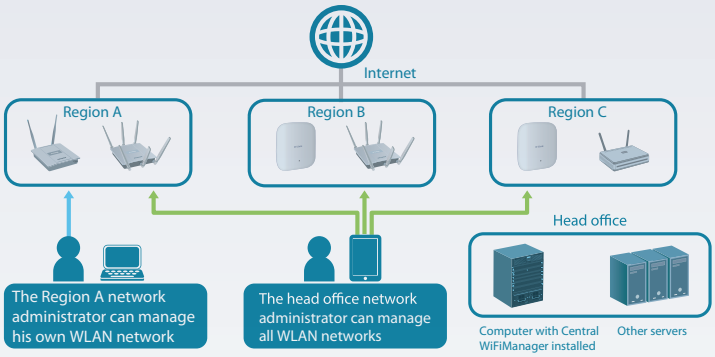
Central WiFiManager is D-Link's latest tool to help network administrators streamline their wireless access point management workflow. Central WiFiManager is an innovative approach to the more traditional hardware-based multiple access point management system and uses a centralised server to both remotely manage and monitor wireless access points on a network. Whether deployed on a local computer or hosted on a public cloud service, Central WiFiManager can be easily integrated into existing networks in conjunction with supporting D-Link wireless access points, to help eliminate existing bottlenecks for wireless traffic.

Extendable, Affordable Business Wireless Solution

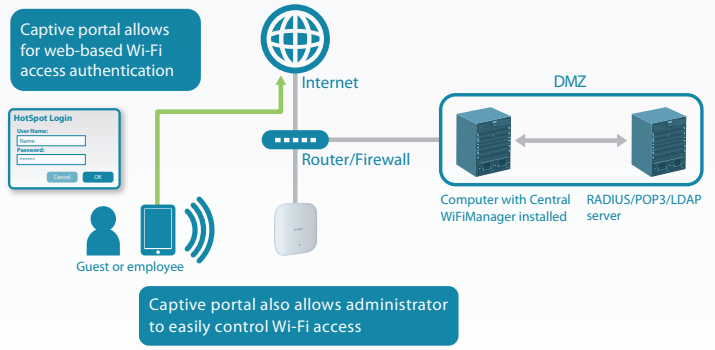
Designed from the ground up as a standalone software controller, D-Link Central WiFiManager is flexible, robust, and feature rich. It comes ready to run with many enhanced enterprise wireless access point (AP) features to provide a solid wireless network system for customers who need a centralised management controller. Central WiFiManager can be deployed onto a server running Microsoft Windows[2] and can manage up to 500 APs[3] without an additional license charges. Central WiFiManager currently supports 6 different models of D-Link Access Points[1].

Robust Security and Management Tools

Central WiFiManager supports multi-site deployment management as well as multi-tenancy management. This allows network administrators to provide different management authorities between head and regional offices, and allows service providers to offer a managed wireless network for their customers. Sites can be logically separated with their own configuration, access security, network map, and statistics. For example, a network operations manager could pre-configure APs before dispatching them to regional offices. He can then manage all of the APs on an enterprise intranet, while allowing local administrators to manage APs that are only present on their local network. The service provider can simply send a pre-configured AP to a customer and then remotely manage the customer's wireless network access and security.

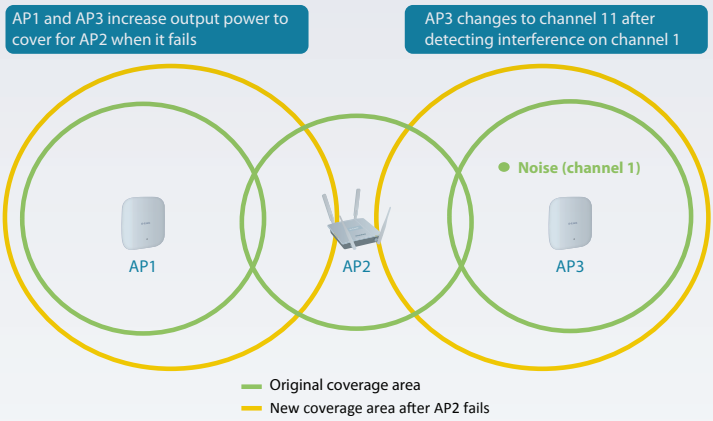

Internet
Region A
Region B
Region C
Head office
The Region A network administrator can manage his own WLAN network
The head office network administrator can manage all WLAN networks
Computer with Central WiFiManager installed
Other servers

For wireless access, D-Link SMB APs can support 8 SSIDs per radio, which means administrators can use one SSID to create a guest network for visitors. Central WiFiManager expands on that built-in feature and allows for multiple user authentications. Access controls can be configured per SSID as well, allowing network administrators to configure separate internal networks for different subnets. This means that more advanced value added services such as a captive portal or Wi-Fi hotspots can be used to help manage wireless network traffic.

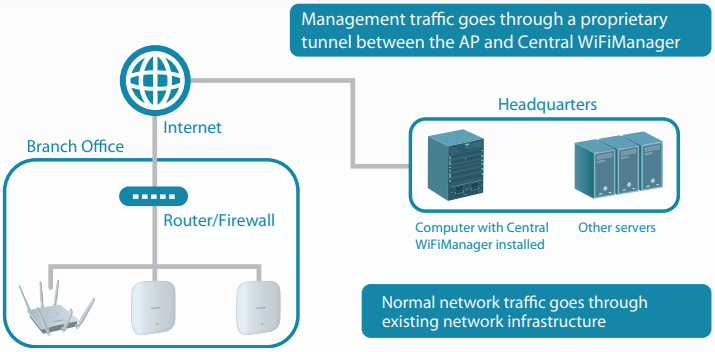


Flexible Expansion and Deployment Options

Unlike traditional hardware controller solutions for managing wireless access points, Central WiFiManager has a much lower initial investment cost as it comes bundled with many D-Link access points[1] and there are no per access point license charges. With the simple to use installation tool, it is easy to expand the wireless network in the future. Adding devices to Central WiFiManager is done automatically when new access points are discovered on the network, allowing new devices to be quickly managed and deployed. Central WiFiManager also automatically manages RF output for multiple access points, optimising the number of available wireless channels and coverage. This results in reduced channel interference and provides faster total bandwidth throughput and connection reliability. By optimising the coverage area and connection quality, Central WiFiManager enables network administrators to provide a better wireless service at a lower deployment cost, resulting in a higher return on investment.


AP1 and AP3 increase output power to cover for AP2 when it fails
AP3 changes to channel 11 after detecting interference on channel 1
Noise (channel 1)
AP1
AP2
AP3
Original coverage area
New coverage area after AP2 fails

Deploying Central WiFiManager is also much simpler compared to traditional hardware controller solutions as it can be installed on any server running a recent version of Microsoft Windows[2]. Central WiFiManager software operates transparently on the network meaning the access point can be deployed anywhere in a customer's Layer 2/3 environment. Management traffic to and from the target access points will go through an authorised tunnel to Central WiFiManager while normal network traffic will go through existing networking infrastructure unimpeded. The Central WiFiManager management interface is also remotely accessible via its built-in web server. Administrators can use a web browser to connect to computers with Central WiFiManager installed to manage their WLAN network and wireless access points from anywhere.


Management traffic goes through a proprietary tunnel between the AP and Central WiFiManager
Headquarters
Internet
Branch Office
Router/Firewall
Computer with Central WiFiManager installed
Other servers
Normal network traffic goes through existing network infrastructure

D-Link
Building Networks for People

CWM-100 Central WiFiManager

Indoor Wireless Access Points Compatible with Central WiFiManager

	11ac Dual-Band		11n Dual-Band	11n Single-Band		
Model	DAP-2695	DAP-2660	DAP-2690	DAP-2360	DAP-2330	DAP-2310
Product Image						
H/W Version	A1	A1	B1	B1	A1	B1
IEEE Standard	802.11a/b/g/n/ac	802.11a/b/g/n/ac	802.11a/b/g/n	802.11b/g/n	802.11b/g/n	802.11b/g/n
2.4 GHz Speed	450 Mbps	300 Mbps	300 Mbps	300 Mbps	300 Mbps	300 Mbps
5 GHz Speed	1300 Mbps	900 Mbps	300 Mbps			
Number of SSIDs	16 (8 per radio)	16 (8 per radio)	16 (8 per radio)	8	8	8
Ethernet Interface	2 x Gigabit Ethernet	1 x Gigabit Ethernet	1 x Gigabit Ethernet	1 x Gigabit Ethernet	1 x Gigabit Ethernet	1 x Gigabit Ethernet
PoE	802.3at	802.3af	802.3af	802.3af	802.3af	
Max Tx Power	27.5 dBm	2.4 GHz: 28 dBm 5 GHz: 26 dBm	23 dBm	26 dBm	28 dBm	26 dBm
Antenna Type	External	Internal	External	External	Internal	External
Antenna Gain	2.4 GHz: 4 dBi 5 GHz: 6 dBi	2.4 GHz: 3 dBi 5 GHz: 4 dBi	2.4 GHz: 4 dBi 5 GHz: 6 dBi	2.4 GHz: 5 dBi	2.4 GHz: 3 dBi	2.4 GHz: 2 dBi
Mounting Type	Wall/Desktop	Ceiling/Wall/ Desktop	Wall/Desktop	Wall/Desktop	Ceiling/Wall/ Desktop	Wall/Desktop
Security Lock	Yes	Yes	Yes	Yes	Yes	Yes
Power Adapter	48 V / 0.5 A	12 V / 1A	48 V / 0.5 A	12 V / 1 A	12 V / 1 A	12 V / 1 A
Maximum Power Consumption	18.2 W	11 W	10.67 W	7.9 W	4.8 W	6.5 W
PoE Kit in Package	Yes	No	Yes	No	No	No

D-Link
Building Networks for People

CWM-100 Central WiFiManager

Technical Specifications

WLAN Management		
Maximum APs per Device (Controller)	• 500[3]	
WLAN Management Features	• AP grouping • Multi-tenancy	• Visualised topology • NAT pass-through
AP-Controller Connection Mode	• Bridge mode	
User Authentication		
Guest Portal	• Captive portal	
Authentication Method	• Local • POP3 • RADIUS	• LDAP • Voucher
Hotspot Features	• Built-in support for voucher-based authentication • Built-in hotspot manager for voucher creation and guest management	• Rate limiting and bandwidth control for guest and hotspot portal
Wireless Features		
RF Management and Control	• Auto Output Power Control • Auto Channel	• Self-healing around failed APs
Multiple SSIDs per Radio(AP)	• 8	
Advanced Wireless Features	• Band steering • L2 roaming	• Bandwidth optimisation
WIDS System	• Rogue AP detection	
System Management		
Management Interface	• Web-based user interface	
Minimum System Requirements	• Computer running Microsoft Windows 7 or Windows Server 2008/2012	
Online Check	• Firmware	• Module
Scheduling	• Firmware update	• Configuration update

[1] Supported models: DAP-2695, DAP-2660, DAP-2690/B1, DAP-2360/B1, DAP-2330, DAP-2310/B1
[2] Supported Operating Systems: Microsoft Windows 7 or Windows Server 2008/2012
[3] Number of wireless access points supported depends on the specification of the computer on which Central WiFiManager is installed. To support 500 APs, a computer with at least an Intel Core i5 3.2 GHz with 4 GB RAM and 2 TB hard drive is recommended.

For more information: www.dlink.com

D-Link European Headquarters. D-Link (Europe) Ltd., D-Link House, Abbey Road, Park Royal, London, NW10 7BX.
Specifications are subject to change without notice. D-Link is a registered trademark of D-Link Corporation and its overseas subsidiaries.
All other trademarks belong to their respective owners. ©2014 D-Link Corporation. All rights reserved. E&OE.

Updated September 2014

D-Link
Building Networks for People